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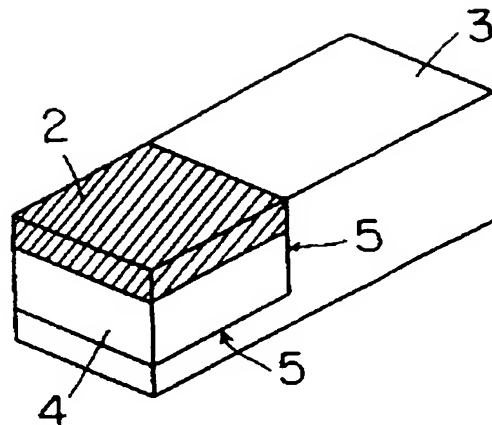
APPLICATION DATE : 19-07-83
APPLICATION NUMBER : 58132468

APPLICANT : SUMITOMO ELECTRIC IND LTD;

INVENTOR : KONO YUICHIRO;

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TITLE : PREPARATION OF COMPOSITE
BLANK



ABSTRACT : PURPOSE: To obtain a strong joint force even at a high temp. without deteriorating a hard sintered body by joining the hard sintered body and a base metal by using beam energy.

CONSTITUTION: A composite blank is formed by fixing a small piece 2 made of sintered diamond at one corner of a base metal 3 made of super hard alloy. Said fixing is carried-out in a method where deterioration is not generated even on the heating at a temp. less than 800°C. Electron beam and laser beam are suitable as the above-described beam energy. The shape and dimension of the composite blank are determined equal to those of a standard chip made of super hard alloy.

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